



ANNUAL REPORT  
OF THE  
CONSUMPTIVES' HOSPITAL DEPARTMENT  
FOR THE YEAR ENDING JANUARY 31, 1920.

BOSTON, February 1, 1920.

HON. ANDREW J. PETERS,

*Mayor of the City of Boston:*

DEAR SIR,—The report of the Consumptives' Hospital Department for the year ending January 31, 1920, is respectfully submitted herewith.

The Board of Trustees met on May 15, 1919, and organized for the year. John F. O'Brien was elected chairman and James J. Minot secretary.

The appropriation for the year 1919-20 was \$300,750. The expenses for the year were \$291,755.64, leaving a balance of \$8,994.36, which was turned back to the city treasury.

The receipts for the year were \$92,159.66, which are not credited to the hospital but paid into the city treasury. This makes the net cost of the hospital to the city \$199,595.98.

Below is given a table showing the cost, the receipts and the net cost, together with the figures for the principal activities of the hospital.

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	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.
Total cost.....	\$200,128 65	\$200,804 48	\$212,950 03	\$212,340 96	\$222,717 69	\$260,737 70	\$281,353 88	\$291,755 64
Paid into city treasury from subsidy, etc.,	42,010 22	54,268 06	62,264 42	60,249 31	77 874 79	81,601 38	87,098 69	92,159 66
Net cost to city.....	\$158,118 43	\$146,536 42	\$150,685 61	\$152,091 65	\$144,842 90	\$179,136 32	\$194,255 19	

WARDS AT MATTAPAN.

*The Following Statistics are Calculated from December 1 to December 1, Except Statistics for Salaries, which are from January 1 to January 1.*

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.
Cost at Mattapan, exclusive of salaries,	\$117,065 77	\$110,936 22	\$116,600 99	\$114,313 51	\$112,471 61	\$136,547 48	\$148,609 73	\$139,109 83
Salaries at Mattapan.....	\$48,168 29	\$54,707 32	\$60,733 64	\$61,584 37	\$73,130 57	\$81,824 66	\$84,314 55	\$97,343 41
Number of patient days.....	68,421	74,120	88,189	95,555	129,164	140,031	131,296	132,630
Cost per patient day.....	\$1 49	\$1 53	\$1 53	\$1 31	\$1 24	\$1 39	\$1 68	\$1 74
Number of patient and officer days.....	107,731	112,868	123,541	131,644	169,388	186,242	177,294	179,808
Per capita per diem cost of raw food....	\$0 31	\$0 35	\$0 34	\$0 33	\$0 35	\$0 38	\$0 44	\$0 48

OUT-PATIENT DEPARTMENT.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.
Cost exclusive of salaries but includes rent.....	\$6,794 09	\$6,563 11	\$5,574 79	\$5,898 08	\$6,177 89	\$7,003 05	\$7,477 86	\$7,316 95
Salaries.....	28,100 50	28,597 83	30,040 63	30,545 00	30,937 62	35,362 51	40,951 74	47,985 45

The Following Statistics are Calculated from December 1 to December 1.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.
Number of patient visits to out-patient department December 1 to December 1.....	7,377	8,504	8,750	9,975	9,868	12,381	10,070	10,613	9,642	8,229
Cost of each patient visit to out-patient department.....	\$0 96	\$0 85	\$0 85	\$0 76	\$0 77	\$0 63	\$0 79	\$0 85	\$1 06	\$1 42
Number of nurse visits to patients' homes December 1 to December 1.....	39,220	48,179	51,873	54,778	51,320	53,605	56,079	57,674	53,448	59,727
Cost of each nurse visit to patients' homes.....	\$0 90	\$0 60	\$0 57	\$0 55	\$0 59	\$0 58	\$0 57	\$0 62	\$0 77	\$0 78
Number of cases carried by nurses on districts.....	4,259	4,188	5,017	6,170	6,067	6,378	6,743	7,275	6,904	6,554
Number in bed at time of nurse's first visit *.....	470	425	526	588	590	505	800	852	795	706

\* These patients have been referred to the nurses by outside physicians and others. Patients who have been to the out-patient department are not included here.



The length of stay of the patients in the hospital, at Mattapan, for successive years is shown in the table below. Patients who had entered the hospital less than three weeks before the day in January this census was taken were not counted.

LENGTH OF TIME IN HOSPITAL.	7 to 8 Years.	6 to 7 Years.	5 to 6 Years.	4 to 5 Years.	3 to 4 Years.	2 to 3 Years.	1 to 2 Years.	6 Months to 1 Year.	Less than 6 Months.
January, 1915.....			2	1	8	15	51	54	
January, 1916.....			2	7	10	28	49	38	121
January, 1917.....		1	5	7	13	28	42	72	194
January, 1918.....	1	4	2	4	18	11	42	87	160
January, 1919.....	1		4	12	6	26	63	57	160
January, 1920.....		2	11	3	19	37	70	56	147

The following table shows the admissions and discharges for several years at Mattapan:

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
In hospital February 1.....	183	185	198	213	262	291	403	386	369	377
Admitted.....	587	614	515	580	517	1,020	931	744	685	
Discharged alive.....	345	336	270	291	259	528	544	403	351	
Discharged dead.....	240	263	230	240	230	380	404	358	326	

The increased number of admissions to the hospital in 1916 was due to the fact that new wards had been completed, adding 140 beds. There were less admissions in 1919 than since 1915. The chief reason for the decrease in the number of admissions this year is assumed to be the same as that suggested last year, when there was a decrease, and which was, that owing to high wages everyone who could work did so. In 1919, however, there were in Boston fewer deaths from pulmonary tuberculosis than ever before. In 1919 there were 956 deaths, the next lowest number was 1,034 in 1915.

In the year 1919 there were 966 deaths from pulmonary tuberculosis in Boston. In the same year there were 326 deaths at the hospital at Mattapan and 195 deaths at home, a total of 521 among the patients under the care of the hospital. Fifty-four and one-half per

cent of all the deaths in Boston during this year occurred in patients under the care of the hospital.

The hospital at Mattapan is primarily for those in the advanced stages of the disease. In the year 1919 there were discharged 351 patients alive; 76 patients were allowed to go home because they were so much better, and many of these were well enough to work; 104 patients went home against advice and 171 patients eloped. Nearly all of these last two groups should have remained. Some were getting rapidly worse and went home to die. There is a too large a group, known as the incorrigible consumptives, who enter a hospital, are fattened up, get into a fair condition and then elope, make themselves a menace to others, until some agency causes them to be sent back to the hospital. There are cases who have been readmitted ten times within three or four years. Alcohol has been largely responsible for this group. Since total prohibition has come in there has been a marked improvement. Patients are less restless, there are fewer disturbances and complaints and the number of patients getting alcohol and becoming drunk is very much less. Another group, and in many ways the best patients, while in a fair physical condition, though with a still active disease, leave, often believing they will break down, but willing to accept the inevitable, provided they can by working ease things up at home, even if only temporarily. This group illustrates the necessity of the city doing much more for the care of the family and thus enable this well behaved class to remain at the hospital and not further infect others. In some communities the family of a consumptive is given adequate support. There is another group who are utterly bored by hospital routine and life and leave for this reason. The chaplains have done much to help this group. Amusements and entertainments, due almost entirely to these same chaplains, have done a good deal and books to read have helped greatly. The trustees wish to thank those who have given these entertainments and who have sent the books for their kindness to and thoughtfulness for the consumptives, confined for months and even years to the hospital grounds, and assure them that they have added very much to the pleasure and contentment of the patients.

For some time past patients have been employed in doing various sorts of work for the hospital, working whole or part time as they may be able to and being



paid accordingly. This has done much for contentment. There are some forty such patient-employees, male and female nurses, choremen, maids and so forth.

Last September occupational therapy was introduced. This is done under the supervision of and at the expense of the Boston Tuberculosis Association, as a demonstration as to its value to the patient. It has proved very successful and presumably will be taken over by the hospital before the year is over. The trustees have asked in their budget for the money necessary for this and hope that the city government will grant the money. Under the supervision and instruction of a well trained vocational teacher, Miss Emmons, the patients make baskets, knit, make bead chains and bead work bags, rugs and toys and cane chairs, etc. Men, as well as women, make their own sweaters, etc., and make them for their children. Each one is allowed to work only as long in a day as the physician prescribes. The things made, after being sterilized, are sold and the profit above the cost of the material is given to the patient. This enables him to help in buying clothes, etc., for himself and family. The whole attitude of a large number of patients has entirely changed because of this work. They are contented and happy. The present difficulty with the undertaking is that more patients wish to do the work than one teacher can supervise. Two patients have been added to the teaching staff but there should be more professional teachers.

During the year a special investigator has hunted up the persons rejected in Boston because of tuberculosis at the time of the draft for the army and has succeeded in finding nearly all of them and in persuading them to place themselves under proper medical care and has seen that they did so. A few have persistently refused to be helped.

This same worker is now engaged in finding the "lost case" and has finally found many of them and again brought them under the care of the hospital.

What has done more and will do more to rid the world of tuberculosis than probably anything and everything else is the spreading of the gospel of right living, the knowledge of contagiousness of disease, the proper housing of people and teaching them to provide proper food and how to cook it.

Patients with surgical or other nonpulmonary tuberculosis are admitted to the hospital when there are beds vacant in excess of the number needed for patients with pulmonary tuberculosis.

Paying patients are received at the hospital, and given separate rooms when possible.

#### OUT-PATIENT DEPARTMENT.

The out-patient department is the center of a most important part of the work of the hospital.

The building now used by the out-patient department has been sold and is to be taken down. Therefore a new place must be found. To have an at all satisfactory building it must be built for the purpose. For many years the trustees have asked for a new building. It is very much hoped that money for this purpose will be appropriated this year. Until a new building is built, temporary quarters will have to be hired.

The budget for 1920-1921 has been already submitted.

Attention is called to the reports made to the trustees by the chief of staff and by the superintendent.

During the year the following changes have occurred:

February 15, 1919. Dr. Shu Tai Woo appointed assistant resident medical officer resigned August 10, 1919.

March 4, 1919. Dr. W. Wilder appointed assistant resident medical officer resigned September 2, 1919.

April 30, 1919. Miss Isabel F. Hyams reappointed a trustee.

May 1, 1919. Dr. Forest B. Ames resigned as assistant resident medical officer.

June 15, 1919. Dr. C. M. Flagg resigned as assistant resident medical officer.

July 1, 1919. Dr. Andrew F. Downing appointed third assistant physician. Dr. Newton C. Browder appointed assistant resident medical officer. Dr. Ven Tsae Loh appointed assistant resident medical officer resigned September 20, 1919.

September 1, 1919. Dr. William B. Wood appointed assistant resident medical officer, resigned December 31, 1919.

October 1, 1919. Dr. Harold A. Bulger appointed assistant resident medical officer.

October 20, 1919. Dr. John T. Sullivan resigned as laryngologist.

November 1, 1919. Dr. Charles E. Shay appointed laryngologist.

January 2, 1920. Dr. Alfred J. Steinberg appointed assistant resident medical officer.

February 1, 1920. Dr. N. A. Bolotow resigned as assistant resident medical officer.

Respectfully submitted,

JOHN F. O'BRIEN, *Chairman,*

JAMES J. MINOT, *Secretary,*

ISABEL F. HYAMS,

JOHN J. BARRY,

PATRICK A. KEARNS,

PETER J. DONAGHUE,

*Trustees Boston Consumptives' Hospital.*



## SUMMARY.

## HOSPITAL AT MATTAPAN.

	1919.	1918.	1917.
Number of beds.....	422	422	408
Average daily number of patients.....	366	362	381
Total number admitted: Adult, 624; child, 61; total.....	685	744	931
Number admitted from Out-Patient Depart- ment.....	572	648	807
Total number discharged: Adult, 622; child, 55; total.....	677	761	948
Discharged "arrested": Adult, 7; child, 9; total.....	16	38	58
Discharged "improved": Adult, 204; child, 26; total.....	230	227	333
Discharged "unimproved": Adult, 89; child, 7; total.....	96	123	133
Nonpulmonary or nontubercular.....	9	15	20
Discharged "dead": Adult, 313; child 13; total.....	326	358	404
Discharged "alive": Adult, 309; child, 42; total.....	351	388	544
Discharged "by advice".....	76	112	220
Discharged "against advice".....	104	124	160
Discharged "eloped".....	171	152	164
Total cost, February 1 to February 1, including capital expenses account.....	\$236,453.24	\$232,924.28	\$218,372.14
Paid into city treasury (subsidy from state, patients' board from cities and towns, etc.).....	\$91,739.61	\$86,720.59	\$81,236.23
Net cost to the city of hospital at Mattapan....	\$144,713.63	\$146,203.69	\$137,135.91
Cost per patient per day, excluding capital expense account.....	\$1.74	\$1.68	\$1.39
Cost of raw food per patient and officer day....	\$0.48	\$0.44	\$0.38.

## OUT-PATIENT DEPARTMENT.

	1919.	1918.	1917.
Total number of cases, old and new.....	8,229	9,671	9,829
Number of new cases.....	2,020	2,125	2,288
Number of new positive cases.....	721	716	792
Total number of nurses' visits to homes.....	59,729	53,448	57,674
Number referred to State Hospitals for Consumptives.....	519	472	539
Number admitted to State Hospitals for Consumptives.....	408	288	235
Number referred to other hospitals.....	36	64	104
Number admitted to other hospitals.....	59	47	76
Number of deaths of patients in districts under nurses' care.....	276	245	204
Total cost, February 1 to February 1.....	\$55,302.40	\$48,429.60	\$42,365.56
Paid into city treasury (sale of medicine).....	\$420.05	\$378.10	\$365.15
Net cost to the city of Out-Patient Department,	\$54,882.35	\$48,051.50	\$42,000.41
Cost per visit of patient to clinic.....	\$1.42	\$1.06	\$0.85
Cost per visit of nurse to a home.....	\$0.78	\$0.77	\$0.62

Total deaths in Boston from pulmonary tuberculosis.....	966	1,186	1,147
Of which occurred under the care of the hospital.....	602	603	608

REPORT OF THE MEDICAL STAFF.

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BOSTON, January 31, 1920.

*To the Trustees of the Boston Consumptives' Hospital:*

I herewith submit the report of the medical staff of the Boston Consumptives' Hospital for the year ending January 31, 1920.

## A. HOSPITAL, MATTAPAN.

The clinical work at the hospital has been greatly handicapped by the shortage of assistant resident physicians which has been so acutely felt throughout the war. For several years we have never had a full quota of residents and during the past year, as previously, we have been obliged to find assistants to Doctor Hunt among the fourth-year students at the Harvard Medical School. In the late summer Messrs. Browder and Bulger were appointed as assistants to serve until the end of the school year in May. Since the ending of the war the demand for young medical school graduates has been so general that the supply has been unequal to the demand. There is every indication, however, that with the graduation in June we shall be able to secure an adequate number of well trained men for the positions now vacant.

I record with deep regret the resignation of Dr. John T. Sullivan on October 20 from the position of assistant visiting physician in charge of the laryngological work. Doctor Sullivan has been associated with the hospital since its inception and has always served the hospital most conscientiously. His long years of devoted service have contributed greatly to the success of the clinical work. Since Doctor Sullivan's resignation Dr. Charles E. Shay, formerly assistant laryngologist, has been placed in charge of the laryngological service.

During the year the following resignations among the assistant resident physicians have occurred: Doctor Woo in April, to begin his service as medical interne at the Massachusetts General Hospital; Doctor Ames in July, to take up his work as medical interne at the Boston City Hospital; Doctor Wilder in September, to



enter the same institution as medical interne; Doctor Flagg in June, to enter private practice.

The work of the clinical laboratory has continued as heretofore under the faithful and efficient supervision of Doctor Childs. In the course of the year approximately 4,000 sputum examinations and somewhat over 800 miscellaneous examinations were made. As has been the case for some years, Doctor Childs has not been provided with adequate technical assistants and has in consequence been obliged to do much of the routine work of the laboratory from which a director should be free.

One of the most important undertakings of the year has been the industrial work for patients which was so ably organized by Miss Emmons. She has been aided in her efforts only by two patient assistants. The work done has been chiefly basketry. The benefits to those among the patients who have taken up the work have been obvious and in some instances very striking. Aside from the benefits of an interesting occupation the patients have been able in several instances to earn a considerable amount of money. It is much to be regretted that it has been possible to interest but a small proportion of the patients in the hospital in this new work. The large class of patients whom it was most desired to reach in this way it has been impossible up to this time to interest. The net results, however, are good and it is our opinion that the industrial work is a real asset to our hospital program. It has proved of great value both from a social point of view and therapeutically in many institutions, and it is our conviction that renewed efforts should be made to foster this manual work among our patients.

Clinical instruction of students from both the Harvard and Tufts Medical Schools has been given in the wards as previously and has been of very direct advantage to the hospital. It not only stimulates the general medical standards of the hospital but keeps the institution in close touch with the students of the local medical schools from which we must secure our resident physicians.

#### *Pavilion Wards for Adults.*

On February 1, 1919, there were 217 patients in these wards, of whom 152 were males and 65 females. The total number admitted during the year was 698,

comprising 475 males and 223 females. The discharges for the year were 479 males and 235 females, or a total of 714 cases. The number of patients in these wards on February 1, 1920, were 148 males and 53 females, or a total of 201. The total number of patients treated in the pavilion wards during the year was 915 as against 989 for the previous year and 1,184 for the second year previous. It is probable, as noted in last year's report, that this rapid falling off in the number of patients treated was in all probability largely due to the fact that since the war began the patients find it an easy matter to obtain employment at a very lucrative wage.

The following table gives the diagnosis of all cases on admission treated during the year, arranged according to sex:

	Males.	Females.	Totals.
A. Stage I.....	19	10	29
B. Stage II.....	69	26	95
C. Stage III.....	377	183	560
D. Tuberculosis, nonpulmonary.....	10	4	14
Totals.....	475	223	698

Approximately the same percentage of all cases admitted were of the third stage as last year (80 per cent as against 78 per cent). This material increase in the percentage of advanced cases admitted as compared with previous years is difficult to accurately explain. It seems probable, however, that it is less the result of policy than of accident. The opening of the various county and city hospitals for the tuberculous throughout the state has naturally relieved the pressure on the state institutions which have been more free to accept Boston cases of the first and second stage. Many of these cases prefer to enter the state institutions rather than the Consumptives' Hospital. Furthermore, as previously suggested, the demand for labor has been such that even those handicapped by tuberculosis have been able, as a rule, to find employment.

Table showing the source of 698 cases admitted during the year:



	Males.	Females.	Totals.
A. Out-patient department.....	366	160	526
B. Cottage wards.....	45	22	67
C. Other institutions, etc.....	33	19	52
D. Outside physicians.....	28	18	46
E. Born at Boston Consumptives' Hospital.....	3	4	7
Totals.....	475	223	698

Nearly 90 per cent of all admissions have come from the out-patient department and cottage wards. This percentage has shown a gratifying increase year by year. Only 46, or 6 per cent, were referred directly by outside physicians, indicating that in accordance with our program the outside physicians have been referring their cases first to the out-patient department.

Table showing the disposition of all discharged cases:

	Males.	Females.	Totals.
A. Discharged dead.....	219	93	312
B. Discharged to home.....	134	74	208
C. Transferred to cottage wards.....	111	55	166
D. Transferred to state hospitals.....	5	3	8
E. Transferred to miscellaneous institutions.....	7	6	13
F. Transferred to children's ward.....	3	4	7
Totals.....	479	235	714

Upwards of 50 per cent of all discharged cases were discharged dead, or approximately the same percentage as last year. As is to be desired, the percentage of cases discharged home is slightly less than for the previous year.

Table showing the average length of stay of all discharged cases from 1910 to 1920:

	Year 1910-11. (Days.)	Year 1911-12. (Days.)	Year 1912-13. (Days.)	Year 1913-14. (Days.)	Year 1914-15. (Days.)	Year 1915-16. (Days.)	Year 1916-17. (Days.)	Year 1917-18. (Days.)	Year 1918-19. (Days.)	Year 1919-20. (Days.)
All discharged cases.....	46	40	82	85	96	122	109	111	130	110
Discharged dead.....	45	36	85	87	88	133	118	135	128	137
Discharged to home.....	53	38	93	87	98	114	70	164	163	84
Discharged to other institu- tions.....	39	33	63	80	56	27	50	31	94	108

The gratifying increase in the length of stay of those discharged home for the years 1917-18 and 1918-19 has not been maintained during the past year. Not infrequently patients have left the hospital against advice because of the opportunity for work with high wages and in a few instances because other members of the family were receiving abnormally high wages and thus able to support the patient.

Table showing the condition at time of discharge:

	Males.	Females.	Totals.
Arrested.....	2	5	7
Improved.....	201	105	306
Unimproved.....	57	32	89
Dead.....	219	93	312
Totals.....	479	235	714

#### *Cottage Wards.*

The number of cases treated during the year shows a decrease over last year as did that year over the previous one. During the year just closed 77 women and 188 men, or a total of 265 patients, were treated. The statistics of all cases receiving treatment in these wards are given in the following table:

	Males.	Females.	Totals.
Number of patients February 1, 1919.....	77	22	99
Number of patients admitted during the year.....	111	55	166
Number of patients discharged during the year.....	99	49	148
Number of patients remaining January 31, 1920.....	89	28	117

The type of case admitted to these wards is almost exactly the same as last year as is shown in the following table:

	Males.	Females.	Totals.
Stage I.....	6	3	9
Stage II.....	22	13	35
Stage III.....	82	39	121
Nontuberculous.....	1	.....	1
Totals.....	111	55	166



The percentage of third-stage cases is 73 as compared with 74 per cent last year.

Table giving disposition of all discharged cases.

	Males.	Females.	Totals.
Dead.....		1	1
Home.....	48	22	70
Pavilion hospital.....	45	22	67
Other institutions.....	6	4	10
Totals.....	99	49	148

During the previous year 106, or approximately 60 per cent of all cases discharged from the cottage wards, were sent home, but this year only 70, or roughly 47 per cent, returned to their homes.

Average length of stay of all discharged cases:

	Males.	Females.
All discharged cases.....	174 days	169 days
Dead.....		168 days
Those discharged home.....	88 days	183 days
Those discharged to other institutions.....	153 days	50 days
Those discharged to pavilion hospital.....	272 days	176 days

It is somewhat difficult to interpret these figures, but they seem to show that the average stay of patients in these wards is materially less than previously, and this fact may account in a small measure for the smaller number of patients usually in residence in the hospital compared with previous years.

Table showing condition of patients at time of discharge:

	Males.	Females.	Totals.
Arrested.....	5	2	7
Improved.....	58	27	85
Unimproved.....	36	19	55
Dead.....		1	1
Totals.....	99	49	148

Sixty-two per cent are seen to have been discharged, improved or arrested. Considering the fact that 73 per cent of all cases treated were admitted as in Stage III., these results seem very satisfactory.

*Children's Ward.*

The total number of infants and children treated during the year was 114, which is a moderate increase over the number for last year. The details of all infants and children treated during the year are given in the following table:

	Males.	Females.	Totals.
Number of patients February 1, 1919.....	28	25	53
Number of patients admitted during the year.....	28	33	61
Number of patients discharged during the year.....	27	28	55
Number of patients remaining January 31, 1920.....	29	30	59

Table giving sources of all cases admitted:

	Males.	Females.	Totals.
A. Out-patient department.....	21	25	46
B. Pavilion wards.....	3	4	7
C. Other institutions.....	4	3	7
D. Private physicians.....		1	1
Totals.....	28	33	61

As in past years and in accordance with the policy of the hospital this table indicates how largely the cases are referred from the Out-Patient Department. But one case was referred direct to the children's ward from a private physician.

Table giving diagnosis of all cases at entrance:

	Males.	Females.	Totals.
Stage I.....	13	8	21
Stage II.....	6	7	13
Stage III.....	4	11	15
Tuberculosis, nonpulmonary.....	2	3	5
Nontuberculous.....	3	4	7
Totals.....	28	33	61



Table showing disposition of all discharged cases:

	Males.	Females.	Totals.
A. Dead.....	7	6	13
B. Home.....	16	19	35
C. Other institutions.....	4	3	7
Totals.....	27	28	55

Table giving average length of stay of all discharged cases:

	Males.	Females.
A. All cases.....	299 days	259 days
B. Dead.....	83 days	184 days
C. Home.....	347 days	326 days
D. Other institutions.....	738 days	55 days

Table giving number of discharged cases other than the dead with reference to the losses or gains in weight:

	Males.	Females.	Totals.
A. Gained.....	15	20	35
B. Stationary.....	1	.....	1
C. Lost.....	4	2	6

Table giving condition at time of discharge:

	Males.	Females.	Totals.
Arrested.....	5	4	9
Improved.....	10	16	26
Unimproved.....	5	2	7
Dead.....	7	6	13
Totals.....	27	28	55

## B. OUT-PATIENT DEPARTMENT.

*Day Clinic.*

The personnel of the visiting staff has remained the same, but during the year Doctors Kent and Downing have each served six months as assistant director of the clinic, an arrangement which has increased the efficiency of the work very materially. Doctors Boutwell, Riley, Shay and Silva, who were in active military service, have all been honorably discharged and are again on duty in the out-patient department.

During the year there was a total of 7,660 cases treated, of whom 1,971 were new and 5,689 old cases.

The following table gives the total number of new and old cases, as well as the percentage of positive cases, by years since the beginning of the clinic.

YEAR.	Number New Cases.	Number Old Cases.	Totals.	Percentage Positive Cases (New).
September 11, 1907, to January 31, 1908.	1,122	912	2,034	32.79
February 1, 1908, to January 31, 1909...	2,433	7,098	9,531	31.69
February 1, 1909, to January 31, 1910...	2,656	8,074	10,730	42.36
February 1, 1910, to January 31, 1911...	2,462	4,915	7,377	33.75
February 1, 1911, to January 31, 1912...	2,033	6,471	8,504	36.94
February 1, 1912, to January 31, 1913...	1,971	6,735	8,706	49.87
February 1, 1913, to January 31, 1914...	2,455	7,980	10,435	44.28
February 1, 1914, to January 31, 1915...	2,227	7,971	10,198	44.90
February 1, 1915, to January 31, 1916...	2,679	8,707	11,386	39.42
February 1, 1916, to January 31, 1917...	2,247	7,823	10,070	39.03
February 1, 1917, to January 31, 1918...	2,288	7,541	9,829	35.00
February 1, 1918, to January 31, 1919...	2,125	6,860	8,985	32.80
February 1, 1919, to January 31, 1920...	1,971	5,689	7,660	37.03
Totals.....	28,669	86,776	115,445	

The general tendency to diminishing numbers to which attention was called in last year's report has been somewhat more evident this year. The attendance has been so obviously affected by the war and by conditions of prosperity immediately following the armistice that these figures do not seem significant unless they should continue to diminish during subsequent years.



Table of attendance of old and new cases arranged by months:

	Old.	New.	Totals.
February, 1919.....	435	179	614
March, 1919.....	538	236	774
April, 1919.....	402	161	563
May, 1919.....	476	235	711
June, 1919.....	563	169	732
July, 1919.....	378	159	537
August, 1919.....	377	144	521
September, 1919.....	324	139	463
October, 1919.....	478	143	621
November, 1919.....	597	153	750
December, 1919.....	567	108	675
January, 1920.....	554	145	699
Totals.....	5,689	1,971	7,660

Table of diagnosis at entrance of all new cases, arranged according to age and sex:

	ADULTS.		CHILDREN.		Totals.
	Males.	Females.	Males.	Females.	
A. Tuberculosis.....	386	295	13	27	721
B. Suspected.....	66	104	21	43	234
C. Nontuberculous.....	193	148	308	359	1,008
D. Tuberculosis, nonpulmonary.....	1	1	.....	.....	2
E. Insufficient records.....	1	3	1	1	6
Totals.....	647	551	343	430	1,971

A careful consideration of this table seems important. In last year's report it was noted that the number of positive cases was somewhat less than for the previous year. This year, however, the figures are materially greater. These variations are probably only those which may be considered normal from year to year.

Table giving the diagnosis in the case of all children admitted to the clinic during the past twelve years:

	Positive.	Per Cent.	Deferred and Negative.	Totals.
February 1, 1908, to January 31, 1909.....	87	9.46	833	920
February 1, 1909, to January 31, 1910.....	246	21.87	879	1,125
February 1, 1910, to January 31, 1911.....	87	9.91	791	878
February 1, 1911, to January 31, 1912.....	131	14.57	761	892
February 1, 1912, to January 31, 1913.....	266	32.01	565	831
February 1, 1913, to January 31, 1914.....	160	20.69	617	777
February 1, 1914, to January 31, 1915.....	150	20.57	575	729
February 1, 1915, to January 31, 1916.....	70	7.63	840	917
February 1, 1916, to January 31, 1917.....	53	7.34	669	722
February 1, 1917, to January 31, 1918.....	58	6.43	844	902
February 1, 1918, to January 31, 1919.....	33	4.26	742	775
February 1, 1919, to January 31, 1920.....	40	5.19	731	771

Table showing stage of the disease of all positive cases:

	ADULTS.		CHILDREN.		Totals.
	Males.	Females.	Males.	Females.	
Stage I.....	54	93	9	13	169
Stage II.....	188	105	6	7	306
Stage III.....	144	97	2	3	246
Tuberculosis, nonpulmonary.....	1	1	.....	.....	2
Totals.....	387	296	17	23	723

Table showing disposition of all discharged cases:

	Males.	Females.	Totals.
Admitted to hospital.....	457	219	676
Discharged out of town.....	3	2	5
Patients refused to enter hospital.....	16	17	33
Lost track of.....	2	2	4
Dead.....	12	3	15
Totals.....	490	243	733



*Evening Clinic.*

The figures for the year are a total of 49 new and 520 old cases. The new cases comprise 33 males and 16 females.

The following table gives the attendance by months of old and new cases:

	Old.	New.	Total.	Average Attendance.
February, 1919.....	37	3	40	10.0
March, 1919.....	78	3	81	16.0
April, 1919.....	52	6	58	14.5
May, 1919.....	49	10	59	14.7
June, 1919.....	57	4	61	12.2
July, 1919.....	24	4	28	7.0
August, 1919.....	44	6	50	12.5
September, 1919.....	44	4	48	12.0
October, 1919.....	24	1	25	8.3
November, 1919.....	34	3	37	9.2
December, 1919.....	32	1	33	6.6
January, 1920.....	45	4	49	12.2
Totals.....	520	49	569	

Year by year for the past five years the clinic has shown an almost steady decrease in numbers both as applied to the old and the new cases and this year they are the smallest since 1914 and 1915.

Table of diagnosis at entrance of all new cases:

	ADULTS.		CHILDREN.		Totals.
	Males.	Females.	Males.	Females.	
A. Tuberculosis.....	8	2	.....	.....	10
B. Suspected .....	6	4	.....	.....	10
C. Nontuberculous.....	18	10	1	.....	29
Totals.....	32	16	1	.....	49

Table giving stage of disease at entrance of all positive cases:

	ADULTS.		Totals.
	Males.	Females.	
Stage I.....	2	1	3
Stage II.....	4	.....	4
Stage III.....	2	1	3
Totals.....	8	2	10

Two clinics which have been organized at the out-patient department during the past year deserve special mention.

The first is the asthma clinic held every Wednesday morning by Doctor Cronin. The sufferers from asthma are systematically tested for anaphylaxis to foreign proteins, namely, foods, type pollens and bacterial proteins. If any sensitization to any protein is shown prophylactic treatment is given. The results so far have been very satisfactory. A rather surprising number of cases of asthma are under treatment in this clinic. It is not unusual to have from eight to ten patients on a clinic morning. Some of the patients who are unable to come to the out-patient department are inoculated in their homes by Doctor Cronin. While these cases are as a rule nontuberculous, the work is so closely allied to tuberculosis that it seems desirable that such patients should be treated there.

The second clinic is one for syphilis, which is conducted by Doctor Downing. Patients are seen every Monday morning. A routine Wassermann is done on all new cases coming to the department. A positive Wassermann reaction is so frequently obtained in the tuberculous patients that a clinic for the special treatment of these cases is absolutely necessary. Actual syphilis of the lungs is rare. This clinic has been very well attended and is unquestionably a valuable asset to the out-patient department. In all appropriate cases salvarsan is given or other methods of antisyphilitic treatment are instituted.



## C. DISCUSSION AND RECOMMENDATIONS.

Year by year an earnest appeal has been made in the report of the staff for more adequate provision for the out-patient work. Within a few years from the opening of the clinic the work had outgrown the building in which it was conducted. The facilities have constantly become more and more inadequate and long ago reached the point which made satisfactory administration utterly impossible. The failure of the equipment to meet the demands of a modern dispensary is general and need not be discussed in detail. Unless immediate steps are taken to provide a new and better furnished clinic building the standard of medical work will inevitably show a very serious retrograde tendency. A modern clinical laboratory and X-ray department are among the new equipment most needed.

Our experience with various methods of organization of the services of the visiting physicians during the past twelve years leads us to recommend that the term of service be lengthened from four to six months and the salaries be proportionately increased. A smaller number of assistant physicians who would give six months each year to the work and receive an adequate compensation should make it possible to secure the services of the best trained younger physicians in the community.

Some years ago a careful investigation was made of the cost and necessary equipment of a dental service at Mattapan. The matter was indefinitely postponed essentially because of the considerable cost which our appropriation would not permit. The need of this type of clinic, however, is felt daily and the demonstration of the great value of such work in so many similar institutions forces us to again call the matter to the attention of the Board of Trustees. The establishment of even a most modestly equipped dental room would make it possible to afford treatment to the most urgent and important cases.

The developments in medicine and public hygiene have been so profound during the past decade that it becomes constantly necessary to revise our ideals and program of work. Many of the wisest and most experienced of those indentified with tuberculosis work in this country have of late years questioned the entire

wisdom of the type of program which we have followed. Of the wisdom of our work and the value of our results there can be no question. Have not the new facts in medicine and the experiences of the past quarter century of anti-tuberculosis work, however, something to offer in the form of new departures? May not the accumulated results of the twelve years of service to the community by the Boston Consumptives' Hospital offer valuable data which shall indicate new and improved lines of activity? Would it indeed be surprising if a close survey of our work should give evidence that some features of our scheme are either entirely useless or productive of such small results that they should be abandoned? Or expressed practically, are the large expenditures which are being made yearly by the City of Boston for the maintenance of the Consumptives' Hospital Department justified by the achievements? I have for many years felt strongly the wisdom of having a comprehensive investigation made of our methods and accomplishments, preferably by outside experts.

The place of the "nutrition clinic," so called, in hospital practice is fully established and the time will soon come when a department of this type will be found in every well equipped hospital. No consideration is of greater and perhaps none of so great importance to the tuberculous individual as the nutrition. We must not only face the fact that the improvement of the nutrition of the patient is of first importance in his treatment, but also the probability that in a majority of cases the customary diet of the patient is inadequate or badly balanced. The practical test made along these lines by the weekly clinic which has been conducted by Doctor Emerson at the out-patient department has given abundant evidence of the value of this special work. The need is felt for patients of all ages but particularly for the children. Every home case should be closely and constantly supervised in the matter of diet.

During the past year the Harvard Medical School has received from a legacy the sum of one hundred thousand dollars, the income of which is to be used for research in tuberculosis. No plans have yet been made by the school for the expenditure of this fund. It would seem entirely proper and desirable that some definite understanding should be reached between the Harvard Medical School and the Consumptives' Hospital whereby the former should establish a department for this special



research and the latter the laboratories for work which would be of mutual benefit.

I beg to make the following recommendations:

1. That a new out-patient building fully equipped for our special work be provided for.

2. That a dental clinic be established at both the out-patient department and at the hospital at Mattapan.

3. That a comprehensive survey be made of the entire work of the Boston Consumptives' Hospital to date.

4. That a nutrition clinic be maintained at the out-patient department.

5. That the Board of Trustees confer with the authorities of the Harvard Medical School as to the possibility of a combined effort to establish and maintain a department of research in tuberculosis.

Respectfully submitted,

EDWIN A. LOCKE,  
*Chief of Staff.*

## REPORT OF THE SUPERINTENDENT.

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*To the Trustees of the Boston Consumptives' Hospital:*

The report for the year 1919 is herewith presented:

There were 7,660 patients treated at the Day Clinic of the out-patient department during the year. One thousand nine hundred and seventy-one of these were new cases. Five hundred and twenty cases were treated at the Night Clinic, of which 49 were new cases.

On February 1, 1919, there were 369 patients in the wards in the hospital at Mattapan. There were admitted during the year 685 and 677 were discharged. The number of deaths during the year was 326.

In the Children's Ward, February 1, 1919, there were 53 children. There were admitted during the year 61, 55 were discharged, of whom 13 died.

The urgency of a new out-patient building is still very apparent. The special salvarsan work conducted by Doctor Downing showed very good results, but could be carried on more extensively if the facilities were better.

Moving pictures, concerts, etc., were held during the year at the Day Camp Building for the entertainment of the patients. The success of these affairs was due in a great measure to our chaplain, the Rev. Francis A. Burke, who was untiring in his efforts to make these the huge success they were.

Open-air Mass was celebrated during the summer months. The altar was erected on the hospital grounds between B and C buildings and gave an opportunity to the bed patients in B and C wards to participate in the ceremony.

Occupational therapy was introduced into the hospital in September, 1919. The work turned out by the patients was very numerous and of a very fine type. Some of the work, baskets, beads, etc., were disposed of in some of our down-town stores during the Christmas holidays.

I desire again to recommend the erection of a Nurses' Home. At present the accommodations for recreational purposes are very meager. The need of such a building

was very evident during the past two months when egress from the hospital was almost impossible for days at a time due to the heavy storms.

In conclusion, I wish to thank the Board of Trustees for their co-operation throughout the year and to commend the officers and employees of the hospital for their faithful services.

Respectfully submitted,

ARTHUR J. WHITE.



## REPORT OF THE SUPERINTENDENT OF NURSES TO THE OUT-PATIENT DEPARTMENT.

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To ARTHUR J. WHITE, M. D., *Superintendent:*

During the year ending January 31, 1920, 6,554 patients were carried by the nurses of the out-patient department. Seven hundred and six of these patients were too ill for clinic, but were referred for home nursing or hospital care.

The number of visits made by the nurses was 59, 727; of this number, 4,847 calls were made to cases reported to the Boston Board of Health, patients having their own private physicians, but visited by the nurses for the purpose of instructing in the care and prevention of tuberculosis on the first visit, seeing that a proper plan of isolation was being carried and instructions being followed on subsequent visits.

The city is divided into twenty-eight districts, a ward in most instances forming a district. One nurse who speaks several languages visits and instructs all Jewish, Italian, German or Russian patients who do not speak or understand English. We are very much in need of nurses who can speak Arabic, as the Armenians and Syrians are very hard to work with. This difficulty might be largely overcome if we had some one who could understand them. An extra nurse on the staff could be well employed substituting for nurses during illness. This nurse could also look after the transportation of children to special classes and clinics. There also remains the need of substitute nurses for vacations. If two substitutes were allowed for the months of July and August, with their work well arranged and supervised, it would be a great help.

The past year high wages and prohibition had its effect on the work of the district. Except for the dependent mothers' aid cases, very few families were referred to relief agencies for aid and the "homeless men" problem was a negligible one.

The number of days lost by the nurses through illness was 211. Two nurses are taking the part-time course at the School for Social Workers.

We have to thank the Needlework Guild of America, First Parish Church of Dorchester and friends of Doctor Floyd for many gifts of clothing for patients, the Women's Christian Temperance Union, Fruit and Flower Mission for baskets of dainties at Christmas, Thanksgiving and Easter, the *Boston American* for Christmas baskets and the *Evening Record* for coal for patients.

In closing I wish to express my thanks and appreciation of the hearty co-operation received at all times from the medical and nursing staff.

Respectfully submitted,

ZEPHA M. GARDNER,  
*Superintendent of Nurses.*

## FINANCIAL REPORT.

### SCHEDULE 1.

#### Detail of Expenses.

#### TRUSTEES' OFFICE.

##### ADMINISTRATION EXPENSES.

Clerks . . . . .	\$1,113 33	
Stationery . . . . .	39 25	
Postage . . . . .	2 50	
Messenger and telegraph . . . . .	22 15	
	<hr/>	
Total office administration expenses . . . . .		\$1,177 23

#### HOSPITAL.

##### ADMINISTRATION EXPENSES.

Salaries, officers and clerks . . . . .	\$12,278 49	
Painting . . . . .	1,276 22	
Transportation . . . . .	205 93	
Cartage . . . . .	472 19	
Telephone . . . . .	686 60	
Stationery . . . . .	198 76	
Postage . . . . .	15 78	
Office furniture . . . . .	99 00	
Library . . . . .	92 35	
	<hr/>	
Total hospital administration expenses . . . . .		15,325 32
		<hr/>
Grand total administration expenses . . . . .		\$16,502 55

##### PROFESSIONAL CARE OF PATIENTS.

Salaries and wages . . . . .	\$32,283 72	
Medical supplies . . . . .	5,899 84	
Apparatus and instruments . . . . .	603 44	
Laboratory:		
Salaries . . . . .	\$1,288 53	
Supplies . . . . .	46 14	
	<hr/>	
		1,334 67
Disinfectants . . . . .	206 53	
Religious services . . . . .	1,669 00	
X-ray:		
Salaries . . . . .	\$1,279 00	
Supplies . . . . .	691 39	
	<hr/>	
		1,970 39
Music, concerts, etc. . . . .	150 00	
	<hr/>	
Total professional care of patients . . . . .		44,117 59
		<hr/>
Carried forward . . . . .		\$60,620 14



# CONSUMPTIVES' HOSPITAL DEPARTMENT. 31

*Brought forward* . . . . . \$60,620 14

## DEPARTMENT EXPENSES.

Housekeeping:			
Salaries	. . . . .	\$14,059 03	
Supplies	. . . . .	6,676 10	
		<hr/>	\$20,735 13
Kitchen:			
Salaries	. . . . .		3,323 22
Bakery:			
Salaries	. . . . .		1,008 33
Steward's department:			
Meat and fish	. . . . .	\$26,903 99	
Milk	. . . . .	16,611 36	
Groceries	. . . . .	16,963 84	
Butter, cheese and eggs	. . . . .	14,225 03	
Crackers	. . . . .	548 73	
Fruits and vegetables	. . . . .	933 15	
		<hr/>	76,186 10
Laundry:			
Salaries	. . . . .	\$6,713 97	
Supplies	. . . . .	706 75	
		<hr/>	7,420 72
Farm:			
Salaries	. . . . .	\$4,732 49	
Supplies	. . . . .	6,482 09	
		<hr/>	11,214 58
Ambulance and automobile:			
Salaries	. . . . .	\$1,218 00	
Supplies	. . . . .	721 17	
		<hr/>	1,939 17
		<hr/>	
Total department expenses			121,827 25

NOTE.—\$10,049.18 farm cost was "food," but is not entered here in the steward's department.

## GENERAL HOUSE AND PROPERTY EXPENSES.

Maintenance, machinery and tools:			
Salaries	. . . . .	\$14,762 30	
Supplies	. . . . .	691 10	
		<hr/>	\$15,453 40
Maintenance, real estate			5,675 22
Electric lighting and supplies			4,851 99
Fuel			20,141 06
Gas			1,198 71
Ice			631 67
Plumbing			27 54
Oil and waste			401 26
Water rates			24 00
Rents			1,088 00
Cleaning			672 00
Carpenter, salaries			1,591 00
Insurance			3 00
		<hr/>	
Total general house and property expenses			51,758 85
		<hr/>	
Total operating expenses			\$234,206 24
		<hr/>	
<i>Carried forward</i>			\$234,206 24

Brought forward . . . . . \$234,206 24

CAPITAL EXPENSES.

Furniture and furnishings . . . . .	\$350 00	
Washing machine for laundry . . . . .	1,897 00	
Total capital expenses for Mattapan . . . . .		2,247 00
Total capital and operating expenses . . . . .		<u>\$236,453 24</u>

OUT-PATIENT DEPARTMENT.

ADMINISTRATION EXPENSES.

Salaries, officers and clerks . . . . .	\$2,425 00	
Transportation . . . . .	1,725 52	
Stationery . . . . .	568 60	
Telephone . . . . .	412 38	
Postage . . . . .	230 00	
Messenger and telegraph . . . . .	78 05	
Cartage . . . . .	3 30	
Library . . . . .	5 85	
Total administration expenses . . . . .		\$5,448 70

PROFESSIONAL CARE OF PATIENTS.

Salaries and wages . . . . .	\$43,962 45	
Medical supplies . . . . .	1,019 41	
Apparatus and instruments . . . . .	122 39	
Total professional care of patients . . . . .		45,104 25

DEPARTMENT EXPENSES.

Housekeeping:		
Salaries . . . . .	\$1,348 00	
Supplies . . . . .	221 74	
		\$1,569 74
Laundry:		
Salaries . . . . .	\$250 00	
Supplies . . . . .	50 00	
		300 00
Total department expenses . . . . .		1,869 74

GENERAL HOUSE AND PROPERTY EXPENSES.

Rents . . . . .	\$2,130 40	
Gas . . . . .	133 16	
Fuel . . . . .	346 40	
Water rates . . . . .	58 80	
Ice . . . . .	36 04	
Maintenance, real estate . . . . .	174 91	
Total general house and property expenses . . . . .		2,879 71
Total operating expenses for out-patient department . . . . .		<u>\$55,302 40</u>

TOTALS.

Grand total capital expenses . . . . .	\$2,247 00	
Grand total operating expenses . . . . .	289,508 64	
Grand total capital and operating expenses . . . . .		<u>\$291,755 64</u>

# CONSUMPTIVES' HOSPITAL DEPARTMENT.

33

Total capital and operating expenses . . . . .	\$291,755 64
Deduct money paid to City Treasurer, Schedule III. . . . .	92,159 66
Net . . . . .	<u>\$199,595 98</u>

## SCHEDULE II.

SUMMARY OF EXPENDITURES.	APPROPRIATION AND INCOME.
Administration expenses..... \$21,951 25	Appropriation..... \$300,750 00
Professional care of patients..... 89,221 84	
Department expenses..... 123,696 99	
General house and property expenses.. 54,638 56	
Total operating expenses..... \$289,508 64	
Mattapan capital expenses..... 2,247 00	
Balance unexpended..... 8,994 36	
Total..... \$300,750 00	Total..... \$300,750 00

## SCHEDULE III.

### General Revenue, 1919-1920.

Board of patients:	
Commonwealth of Massachusetts, subsidy *	\$67,272 01
State Board of Charity . . . . .	19,388 78
Bureau of War Risk Insurance . . . . .	192 00
Board of Health, Brookline, Mass. . . . .	577 50
Board of Health, Brockton, Mass. . . . .	382 50
Board of Health, Chelsea, Mass. . . . .	160 50
Board of Health, Cambridge, Mass. . . . .	141 00
Board of Health, Fall River, Mass. . . . .	306 00
Board of Health, Lowell, Mass. . . . .	60 00
Board of Health, Springfield, Mass. . . . .	151 50
Board of Health, Saugus, Mass. . . . .	969 00
Board of Health, Taunton, Mass. . . . .	229 50
Board of Health, Medford, Mass. . . . .	72 00
Board of Health, Quincy, Mass. . . . .	42 00
Board of Health, Sudbury, Mass. . . . .	52 50
Board of Health, Woburn, Mass. . . . .	303 00
Board of Health, Wakefield, Mass. . . . .	88 50
Board of Health, Worcester, Mass. . . . .	177 00
Patients' board . . . . .	209 00
Bones and grease . . . . .	211 69
Commission on telephone, Milton 21795 . . . . .	10 71
Sale of pigs and rabbits . . . . .	120 00
Sale of calf . . . . .	5 00
Sale of medicines . . . . .	420 05
Refund on coal . . . . .	617 92
Total . . . . .	<u>\$92,159 66</u>

\* Acts of 1912, chapter 637.

NOTE— The above sum is paid into the city treasury and is not credited to the hospital.



**TABLES SHOWING COST PER PATIENT PER DAY IN THE  
SEVERAL DEPARTMENTS.**

**HOSPITAL AT MATTAPAN.**

**Pavilion wards:**

General operating expenses . . . . .	\$181,671 16	
Proportion of administration expenses . . . . .	10,176 02	
	<u>                    </u>	\$191,847 18

**Cottage wards:**

General operating expenses . . . . .	\$37,209 76	
Proportion of administration expenses . . . . .	2,084 24	
	<u>                    </u>	39,294 00

Total . . . . .		<u><u>\$231,141 18</u></u>
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Total patient days . . . . .	132,630
Average cost per patient per day . . . . .	\$1 74

**TABLE SHOWING COST OF PROVISIONS PER PERSON  
PER DAY.**

Total cost of provisions at Mattapan* . . . . .	<u><u>\$86,235 28</u></u>
Total patient and officer days . . . . .	179,808
Cost of raw food per person per day . . . . .	\$0 48

**OUT-PATIENT DEPARTMENT.**

**Clinical Patients.**

General operating expenses	.	.	.	.	.	.	.	\$11,060	48
Proportion of administration expenses	.	.	.	.	.	.	.	613	01
Total operating expenses	.	.	.	.	.	.	.	\$11,673	49

Total patients' visits . . . . .	8,229
Cost per patient visit . . . . .	\$1 42

**Home Visiting and Nursing.**

General operating expenses	.	.	.	.	.	.	.	\$44,241	92
Proportion of administration expenses	.	.	.	.	.	.	.	2,452	05
Total operating expenses	.	.	.	.	.	.	.	\$66,693	97

Total home visits . . . . .	59,727
Cost per visit . . . . .	\$0 78

**SPECIAL LOAN APPROPRIATIONS.**

**NEW BUILDINGS.**

Balance of appropriation . . . . .	<u><u>\$403 86</u></u>
Total . . . . .	<u><u>\$403 86</u></u>

\* \$10,049.18 of farm cost is included here as food cost.

FINANCIAL REPORT ARRANGED ACCORDING TO BUDGET ITEMS.

GROUP AND ITEM.	Original Appro- priation.	Transfers to.	Transfers from.	Total Net Appro- priation.	Total Expendi- tures.	Balance Unex- pended.	1918-19. Total Expendi- tures.
A. PERSONAL SERVICE.							
1. Permanent employees.....	\$154,289 40	\$9 33	\$7,262 83	\$147,035 90	\$140,346 27	\$6,689 63	\$121,479 70
2. Temporary employees.....	2,000 00			2,000 00	1,226 54	773 46	1,649 75
3. Unassigned.....		189 00		189 00	189 00		
B. SERVICE OTHER THAN PERSONAL.							
1. Printing and binding.....	10 00			10 00	4 50	5 50	123 50
2. Postage.....	284 00			284 00	251 28	32 72	235 91
3. Advertising and posting.....							
4. Transportation of persons.....	2,040 00			2,040 00	1,931 45	108 55	1,300 00
5. Cartage and freight.....	600 00		19 33	580 67	476 39	104 28	459 36
8. Light and power.....	4,400 00			4,400 00	4,293 35	106 65	3,672 91
10. Rent, taxes and water.....	3,289 00	40 00		3,329 00	3,301 20	27 80	2,668 00
13. Communication.....	950 00	250 00		1,200 00	1,199 18	82	890 54
14. Motor vehicle repairs and care.....	200 00			200 00	150 33	49 67	116 76
15. Motorless vehicle repairs.....	150 00	30 00		180 00	176 98	3 02	144 28
17. Care of persons.....	300 00			300 00	300 00		7,142 88
18. Cleaning.....	672 00	2,521 45		3,193 45	3,193 45		1,177 33
22. Medical.....		5 00		5 00	5 00		
23. Veterinary.....	40 00			40 00	34 00	6 00	28 80
24. Blacksmith.....	25 00			25 00	9 75	15 25	5 00
Carried forward.....							\$141,094 72



FINANCIAL REPORT ARRANGED ACCORDING TO BUDGET ITEMS.—Concluded.

GROUP AND ITEM.	Original Appro- priation.	Transfers to.	Transfers from.	Total Net Appro- priation.	Total Expendi- tures.	Balance Unex- pended.	1918=19. Total Expendi- tures.
<i>Brought forward</i> .....	.....	.....	.....	.....	.....	.....	\$141,094 72
28. Expert and architect.....	.....	\$65 00	.....	\$65 00	\$65 00	.....	.....
31. Extermination of insects.....	\$300 00	.....	.....	300 00	294 00	\$6 00	294 00
35. Fees, service of venires, etc.....	5 00	10 00	.....	15 00	5 00	10 00	15 00
36. Boiler inspection.....	.....	15 00	.....	15 00	10 00	5 00	.....
39. General plant.....	5,000 00	.....	\$407 24	4,592 76	4,170 55	422 21	7,399 80
40. Harness, etc., repairs.....	35 00	.....	.....	35 00	34 95	05	3 50
41. Horseshoeing and clipping.....	95 00	25 00	.....	120 00	102 50	17 50	89 98
42. Music, concerts, etc.....	150 00	.....	.....	150 00	150 00	.....	.....
C. EQUIPMENT.							
4. Motor vehicles.....	250 00	.....	.....	250 00	249 78	22	108 74
5. Motorless vehicles.....	25 00	.....	.....	25 00	25 00	.....	17 95
6. Stable.....	15 00	.....	.....	15 00	15 00	.....	2 95
7. Furniture and fittings.....	3,350 00	.....	.....	3,350 00	3,241 50	108 50	4,841 23
8. Educational and recreational.....	50 00	.....	.....	50 00	49 71	29	.....
9. Office.....	99 00	.....	.....	99 00	99 00	.....	191 00
10. Library.....	100 00	.....	.....	100 00	98 20	1 80	45 00
12. Medical, surgical, laboratory.....	800 00	.....	.....	800 00	681 48	118 52	753 95
13. Tools and instruments.....	300 00	50 00	.....	350 00	327 45	22 55	281 48
14. Live stock.....	200 00	.....	.....	200 00	199 40	60	186 00
16. Wearing apparel.....	1,200 00	.....	.....	1,200 00	1,171 01	28 99	1,137 15
17. General plant.....	.....	1,897 00	.....	1,897 00	1,897 00	.....	.....

D. SUPPLIES.							
1. Office.....	1,500 00	533 81	.....	2,033 81	2,032 48	1 33	1,510 25
2. Food and ice.....	72,000 00	4,226 83	.....	76,226 83	76,226 83	.....	69,968 56
3. Fuel.....	21,000 00	860 00	.....	21,860 00	21,853 63	6 37	29,393 52
4. Forage and animal.....	4,500 00	768 56	.....	5,268 56	5,259 82	8 74	4,745 51
5. Medical, surgical, laboratory.....	11,875 00	.....	4,479 08	7,395 92	7,392 25	3 67	11,032 06
6. Library.....	15 00	.....	.....	15 00	2 00	13 00	7 00
8. Laundry, cleaning, toilet.....	2,100 00	.....	.....	2,100 00	2,097 90	2 10	2,278 43
9. Educational and recreational.....	50 00	.....	.....	50 00	50 00	.....	39 98
10. Agricultural.....	625 00	.....	.....	625 00	608 69	16 31	479 99
11. Motor vehicle.....	225 00	100 15	.....	325 15	321 06	4 09	512 54
13. Chemicals and disinfectants.....	600 00	.....	.....	600 00	538 25	61 75	560 15
16. General plant.....	600 00	534 92	.....	1,134 92	1,113 77	21 15	572 69
E. MATERIALS.							
1. Building.....	1,100 00	774 30	.....	1,874 30	1,872 42	1 88	1,030 11
9. Machinery.....	350 00	128 13	.....	478 13	472 66	5 47	218 80
10. Electrical.....	400 00	135 00	.....	535 00	506 81	28 19	385 96
13. General plant.....	600 00	.....	.....	600 00	581 26	18 74	176 57
F. SPECIAL ITEMS:							
11. Workingmen's compensation.....	186 60	.....	.....	186 60	186 60	.....	.....
G. INCIDENTAL EXPENDITURES TO COVER CONTINGENCIES OTHER THAN PERSONAL SERVICES.							
2. Special investigations.....	1,800 00	.....	1,000 00	800 00	664 01	135 99	1,979 31
Totals.....	\$300,750 00	\$13,168 48	\$13,168 48	\$300,750 00	\$291,755 64	\$8,994 36	\$281,353 88



CITY OF BOSTON.  
CONSUMPTIVES' HOSPITAL DEPARTMENT.

Trustees' Office, 1001 City Hall Annex.

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BOARD OF TRUSTEES.

DR. JOHN F. O'BRIEN, *Chairman*, term expires April 30, 1923.

DR. JAMES J. MINOT, *Secretary*, term expires April 30, 1920.

ISABEL F. HYAMS, term expires April 30, 1924.

PATRICK A. KEARNS, term expires April 30, 1921.

JOHN J. BARRY, term expires April 30, 1922.

PETER J. DONAGHUE, term expires April 30, 1923.

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HOSPITAL, RIVER STREET, MATTAPAN.

---

*Superintendent.*

ARTHUR J. WHITE, M. D.

---

VISITING MEDICAL STAFF.

---

*Chief of Staff.*

EDWIN A. LOCKE, M. D.

---

*First Assistant.*

TIMOTHY J. MURPHY, M. D.

---

*Pathologist.*

WILLIAM T. COUNCILMAN, M. D.

---

*Surgical Assistant.*

ALBERT EHRENFRIED, M. D.

---

*Ophthalmological Assistant.*

SAMUEL J. McDONALD, M. D.

---

*Laryngological Assistant.*

CHARLES E. SHAY, M. D.

---

*Roentgenologist.*

F. W. O'BRIEN, M. D.

---

*Consulting Physician.*

JOHN LOVETT MORSE, M. D.

RESIDENT MEDICAL STAFF.

*Resident Medical Officer.*

FRANK H. HUNT, M. D.

*Assistant Resident Medical Officers.*

F. B. SARGENT, M. D.

HAROLD A. BULGER, M. D.

NEWTON C. BROWDER, M. D.

ALFRED J. STEINBERG, M. D.

*Resident Pathologist.*

\_\_\_\_\_, M. D.

*Laboratory Assistant.*

EDNA M. CHILDS, M. D.

*Superintendent of Nurses.*

MARGARET J. CHISHOLM.

OUT-PATIENT DEPARTMENT.

13 Dillaway Street, Boston.

*Second Assistant Physician, Director of Out-Patient Clinic.*

CLEAVELAND FLOYD, M. D.

*Third Assistant Physicians.*

BRADFORD KENT, M. D.

ANDREW F. DOWNING, M. D.

*Assistant Physicians.*

HENRY I. BOWDITCH, M. D.

WILLISTON W. BARKER, M. D.

MICHAEL J. CRONIN, M. D.

HORACE K. BOUTWELL, M. D.

RICHARD H. HOUGHTON, M. D.

JOSEPH B. LYONS, M. D.

FRANCIS P. SILVA, M. D.

ELMOND A. BURNHAM, M. D.

CHARLES A. RILEY, M. D.

*Superintendent of Nurses.*

ZEPHA M. GARDNER.

## CONSUMPTIVES' HOSPITAL DEPARTMENT.

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### HOSPITAL.

The hospital is on River street, Mattapan district.

Electric cars from Forest Hills, Mattapan square or Milton car barns pass through River street.

For admission of patients to the hospital apply to the Superintendent at Mattapan or to the Superintendent of Nurses at the Out-Patient Department.

Patients may be visited by their family or friends after ten a. m.

Patients on the dangerous list may have visitors at any time during the day or night.

Visitors must enter the hospital through the Administration Building and obtain a pass at each visit.

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### OUT-PATIENT DEPARTMENT.

The Out-Patient Department is at 13 Dillaway street, Boston.

The Out-Patient Department is open from nine to eleven A. M. on Mondays, Wednesdays, Fridays and Saturdays, and from seven to nine P. M. on Mondays.

The evening clinic is only for those who cannot come in the daytime.